

Table 4.--Indicated original and remaining phosphorite reserves in surveyed caves on Isla de Mona, P. R.

Areas, volumes and weights are rounded to the nearest 500. Locations are shown on figure 4 and in Briggs and Seiders (1972).⁷

Cave name	Map reference symbol	Total area ^{1/}	Proportion of cave area covered by phosphorite deposits	Average original thickness of phosphorite deposits	Indicated original reserves of phosphorite	Quantity ^{4/} removed	Quantity remaining	Mining loss ^{5/}	Indicated remaining recoverable phosphorite reserves ^{7/}	
		(m ^{2/})		(m)	(m ^{3/})	(m ^{3/})	(m ^{3/})	(m ^{3/})	Volume (m ^{3/})	Weight ^{8/} (mT)
Cueva de las Losetas -----	I	43,500	0.25	1	11,000	0	11,000	^{6/} 1,000	10,000	11,500
Cueva al Lado del Faro -----	II	61,500	.25	1	15,500	14,000	1,500	1,500	0	0
Cueva del Lirio -----	III	97,000	.25	1.5	36,500	33,000	3,500	3,500	0	0
Cueva de los Pájaros -----	IV	128,000	.25	1.5	48,000	43,000	5,000	5,000	0	0
Cueva de la Casa de Erickson -----	V	5,000	.25	1	1,500	1,500	0	0	0	0
Cueva de la Playa Brava(?) -----	VI	13,000	.25	1.5	5,000	4,500	500	500	0	0
Cueva de Doña Genia arriba -----	VII	2,500	.25	1.5	1,000	1,000	0	0	0	0
Cueva Negra -----	VIII	5,000	.20	1	1,000	1,000	0	0	0	0
Cueva del Diamante -----	IX	18,000	.25	1.5	7,000	6,500	500	500	0	0
Cueva del Esqueleto -----	X	20,500	.25	1.5	7,500	7,000	500	500	0	0
Cueva del Capitán -----	XI	41,000	.25	1.5	15,500	14,000	1,500	1,500	0	0
Cueva de la Esperanza -----	XII	<u>5,000</u>	.25	1	<u>1,500</u>	<u>0</u>	<u>1,500</u>	<u>^{6/}0</u>	<u>1,500</u>	<u>2,000</u>
Totals -----	---	440,000	---	---	151,000	125,500	25,500	14,000	11,500	13,500

^{1/}Includes areas occupied by pillars and walls between passages and rooms. Areas of passages and rooms probably average about half the total area of each system.

Areas measured by polar planimetry of maps based on compass-and-tape and compass-and-pace surveys.

^{2/}Rest of cave area consists of pillars, columns, walls, thick rock rubble, or essentially phosphorite-free rock floor.

^{3/}Based on thicknesses measured in exposed sections, thicknesses apparently removed during mining, and estimates of remaining thicknesses determined by driving probes.

^{4/}In each mined-out cave, the quantity is estimated as about 90% of the original reserves of that cave.

^{5/}Thickness and distribution of remaining phosphorite in mined-out caves is such that removal most likely would not prove economic.

^{6/}Potential 10 percent mining loss in areas not yet mined.

^{7/}Recoverable assuming the economic conditions surrounding mining are the same as those that existed during the era of active mining (1877-1924).

^{8/}mT=metric tons. Conversion based on density of 1.17 g/cc (Cadilla, J. F., and Vázquez, Leovigildo, written commun., 1961).